



CASSIDIAN

**PS Docket 06-229 - 3rd Order & 4th NPRM
LTE Discussion**

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Agenda

- Network Architecture
- Priority & Roaming
- LMR Interoperability
- Applications

Network Architecture

- Agree with “hybrid” approach
 - National Network overlay
 - Regional & Tribal Networks
 - Networks will likely deploy as coverage “bubbles”
 - Regional networks may aggregate with time
 - As jurisdictional agreements evolve/mature
 - Cost & operations efficiencies
 - Centralized operations
 - Commercial networks play crucial role
 - Coverage extension in early years
 - Roaming partner for capacity

Priority & Roaming

- Not a technical issue – it will work
 - Commercial operators will sort out - revenue
- Cross-Jurisdictional agreements required
 - Understanding of services in a visited network vs home
 - Planned roamers vs “casual” roamers
 - Priority and QoS may vary significantly for casual roamers
- Public-Private agreements required
 - Assured level of services support – approach PS grade
- Telecom Act
 - WPS (GSM & CDMA) current precedent for priority in public networks
 - Will PS priority in LTE network mimic WPS rules?

LMR Interoperability

- Project 25 digital
 - P25 Inter-RF Sub-System Interface – ISSI
 - SIP and RTP based
 - Call setup, call control, P25 VoIP, PTT Floor Control
 - Originally designed considering cellular interoperability
 - Media management, discovery
 - OMA PoC elements being studied
- Various gateways exist for other systems
 - Analog, other digital, etc.
 - Many implement the P25 ISSI
- Seen as critical to support LTE rollout

Applications

- LTE provides mobile “last mile” high BW data
- Current applications
 - E9-1-1 & NG9-1-1 – can be remoted with all critical features
 - Dispatch – control room console capability in the field
 - Notification – full capability in the field
 - Video
 - Ease of critical database access in the field
- Future applications
 - Push more data & video to the field